

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Math: \_\_\_\_\_

# Homework Packet

## Unit 6 Lessons 3 – 5a

**Due: Monday, March 18<sup>th</sup>**

**This is a 6-point homework assignment**  
(which is equal to a week of homework).

*You have the class time from today (Thursday, March 14<sup>th</sup>) and the weekend to complete the problems in this packet. In addition to helping you practice the concepts from this week, this packet helps prepare you for your quiz on Tuesday, March 19<sup>th</sup>.*

**We will check this packet, like all homework assignments, in class on Monday.**

**6.3 Proportions Practice**

Date \_\_\_\_\_ Period \_\_\_\_\_

State if each pair of ratios forms a proportion. *Justify your answer.*

1)  $\frac{21}{25}$  and  $\frac{3}{5}$

2)  $\frac{6}{5}$  and  $\frac{42}{30}$

3)  $\frac{4}{6}$  and  $\frac{24}{42}$

4)  $\frac{6}{5}$  and  $\frac{30}{15}$

5)  $\frac{3}{5}$  and  $\frac{18}{35}$

6)  $\frac{6}{20}$  and  $\frac{3}{5}$

7)  $\frac{5}{4}$  and  $\frac{10}{12}$

8)  $\frac{24}{25}$  and  $\frac{4}{5}$

9)  $\frac{8.3}{7}$  and  $\frac{49.8}{28}$

10)  $\frac{104.5}{58}$  and  $\frac{9.5}{5.8}$

**Solve each proportion.**

11)  $\frac{5}{7} = \frac{4}{x}$

12)  $\frac{6}{n} = \frac{5}{6}$

13)  $\frac{4}{3} = \frac{8}{v}$

14)  $\frac{b}{4} = \frac{8}{2}$

15)  $\frac{4}{a} = \frac{7}{3}$

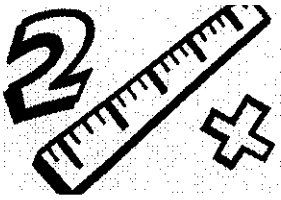
16)  $\frac{5}{k} = \frac{8}{2}$

17)  $\frac{n}{3} = \frac{5}{4}$

18)  $\frac{6}{8} = \frac{2}{x}$

19)  $\frac{k}{8} = \frac{6}{2}$

20)  $\frac{3}{x} = \frac{8}{7}$



Name: \_\_\_\_\_

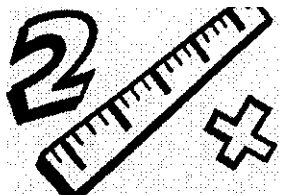
## 6.4 Practice

Convert to: inches, feet or yards as shown.

*Use ratios to help set up conversion, if necessary.*

### Units of Measure Conversions - No Remainders

- |              |    |               |    |
|--------------|----|---------------|----|
| 1. 57 yd =   | in | 2. 44 ft =    | in |
| 3. 252 ft =  | yd | 4. 2,592 in = | yd |
| 5. 864 in =  | ft | 6. 270 ft =   | yd |
| 7. 54 ft =   | yd | 8. 1,296 in = | yd |
| 9. 77 yd =   | in | 10. 432 in =  | ft |
| 11. 30 yd =  | ft | 12. 17 yd =   | ft |
| 13. 92 yd =  | ft | 14. 45 ft =   | yd |
| 15. 144 in = | ft | 16. 49 yd =   | ft |



Name: \_\_\_\_\_

## 6.4 Practice

Convert from or to: ounces, quarts or gallons as requested.

*Use ratios to help set up conversion, if necessary.*

Units of Measure: Conversions

1. 19 gal =                      qt    2. 6 fl oz =                      qt

3. 12 gal =                      fl oz    4. 50 qt =                      gal

5. 22 gal =                      qt    6. 47 gal =                      qt

7. 47 qt =                      gal    8. 11 qt =                      gal

9. 29 qt =                      fl oz    10. 42 gal =                      qt

11. 28 fl oz =                      qt    12. 24 qt =                      gal

13. 49 qt =                      fl oz    14. 26 gal =                      qt

15. 41 qt =                      gal    16. 9 gal =                      fl oz

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

**6.5A practice****Common Percent Table***Fill in  
the missing  
values.*

Fraction	Decimal	Percent
	0.05	
		10 %
$\frac{1}{8}$		
		20 %
	0.25	
		30 %
	$0.\bar{3}$	
		$37\frac{1}{2}\%$
		40 %
$\frac{1}{2}$		
	0.6	
	0.625	
		$66\frac{2}{3}\%$
		70 %
		75 %
$\frac{4}{5}$		
	0.9	



## 6.5A Percents, Fractions, Decimals Practice

Date \_\_\_\_\_ Period \_\_\_\_\_

**Write each as a fraction.**

1) 50%

2) 54%

3) 385%

4) 96%

5) 14%

**Write each as a decimal. Round to the thousandths place.**

6) 38%

7) 0.8%

8) 0.5%

9) 7%

10) 80%

**Write each as a percent. Round to the nearest tenth of a percent.**

11) 0.98

12) 0.5

13) 0.09

14) 0.34

15) 0.92

16)  $\frac{13}{45}$

17)  $\frac{3}{25}$

18)  $\frac{1}{5}$

19)  $\frac{11}{15}$

20)  $\frac{21}{31}$

## 6.5A Finding a Percent of a Number practice

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each problem.**

1) What is 40% of 68?

2) What is 46% of 68?

3) What is 36% of 44?

4) 69% of 46 is what?

5) What is 50% of 45?

6) What is 59% of 21?

7) 66% of 21 is what?

8) 72% of 22 is what?

9) 56% of 45 is what?

10) What is 53% of 21?

11) What is 33% of 68?

12) What is 76% of 46?

13) 43% of 44 is what?

14) 79% of 22 is what?

15) What is 63% of 45?